- (a): the total amount of the repeating units represented by the formulae (1) and (3) is 50 mol% or more of the amount of the whole repeating units,
- (b): the amount of the repeating unit represented by the formula (3) is more than 0.1 mol% and less than 9 mol% based on the total amount of the repeating units represented by the formula (1) and formula (3), and
- (c): when the absorption edge wavelength of a polymer/solely composed of a repeating unit represented by the formula (1) is represented by  $\lambda_1$  (nm) and the absorption edge wavelength of a polymer solely composed of a repeating unit represented by the formula (3) is represented by  $\lambda_2$  (nm), the following relation is satisfied:

$$1239/\lambda_1 \ge 1/239/\lambda_2 + 0.05$$

$$--Ar_1-\left(CR_1-CR_2\right)_n$$

in the formula,  $Ar_1$  is a group represented by the following formula (2);  $R_1$  and  $R_2$  each independently represents a group selected from the group consisting of a hydrogen atom, alkyl group having 1 to 20 carbon atoms, anyl group having 6 to 60 carbon atoms, heterocyclic compound group having 4 to 60 carbon atoms and cyano group; and n is 0 or 1,

$$---Ar_2--\left(Ar_3\right)_m-Ar_4--\left(\dots (2)\right)$$

in the formula, Ar<sub>2</sub> to Ar<sub>4</sub> each independently represents an arylene group having 6 to 60 carbon atoms contained in the main chain, or a heterocyclic compound group having 4 to 60 carbon

atoms contained in the main chain; at least one of Ar<sub>2</sub> to Ar<sub>4</sub> is a group other than a 6-membered ring, or at least one of Ar<sub>2</sub> to Ar<sub>4</sub> has a substituent other than a hydrogen atom; when a plurality of substituents are carried, they may be the same or different; adjacent rings may be mutually connected directly or via a substituent to form a ring; m is an integer from 0 to 3; wherein, Ar<sub>2</sub> and Ar<sub>4</sub> constitute a structure wherein if Ar<sub>2</sub> moves in parallel to the polymer main chain, it does not completely overlap Ar<sub>4</sub>.

$$--Ar_5--\left(CR_3--CR_4-\right)_1$$
....(3)

in the formula, Ar<sub>5</sub> represents an arylene group having 6 to 60 carbon atoms contained in the main chain, or a heterocyclic compound group having 4 to 60 carbon atoms contained in the main chain; R<sub>3</sub> and R<sub>4</sub> each independently represents a group selected from the group consisting of a hydrogen atom, alkyl group having 1 to 20 carbon atoms, aryl group having 6 to 60 carbon atoms, heterocyclic compound group having 4 to 60 carbon atoms and cyano group; 1 is 0 or 1.

- 2. (Amended) A polymeric/fluorescent substance which emits a fluorescence in solid state and having a number-average molecular weight of 10<sup>3</sup> to 10<sup>8</sup> in terms of polystyrene, wherein the substance contains each one or more of repeating units represented by the following formula (1), formula (3) and formula (4), and these repeating units are so selected as to satisfy the following conditions (d) to (f):
- (d): the amount of the repeating unit represented by the formula (1) is 10 mol% or more of the amount of the whole repeating units, and the total amount of the repeating units

represented by the formula (1), formula (3) and formula (4) is 50 mol/% or more of the amount of the whole repeating units,

- (e): the amount of the repeating unit represented by the formula (3) is more than 0.1 mol% and less than 9 mol% based on the total amount of the repeating units represented by the formula (1), formula (3) and formula (4), and
- (f): when the absorption edge wavelength of a polymer solely composed of a repeating unit represented by the formula (1) is represented by  $\lambda_1$  (nm), the absorption edge wavelength of a polymer solely composed of a repeating unit represented by the formula (3) is represented by  $\lambda_2$  (nm) and the absorption edge wavelength of a polymer solely composed of a repeating unit represented by the formula (4) is represented by  $\lambda_3$  (nm), the following relations are satisfied:

$$1239/\lambda_1 \ge 1239/\lambda_2 + 0.05$$

$$1239/\lambda_3 \ge 1239/\lambda_2 + 0.05$$

$$-Ar_1 - \left(CR_1 = CR_2\right)_n \qquad \dots$$

in the formula,  $Ar_1$  is a group represented by the following formula (2);  $R_1$  and  $R_2$  each independently represents a group selected from the group consisting of a hydrogen atom, alkyl group having 1 to 20 carbon atoms, aryl group having 6 to 60 carbon atoms, heterocyclic compound group having 4 to 60 carbon atoms and cyano group; and n is 0 or 1,

$$--Ar_5-(CR_3=-CR_4)$$
.... (3)

in the formula, Ar<sub>5</sub> represents an arylene group having 6 to 60 carbon atoms contained in the main chain, or a heterocyclic compound group having 4 to 60 carbon atoms contained in the main chain; R<sub>3</sub> and R<sub>4</sub> each independently represents a group selected from the group consisting of a hydrogen atom, alkyl group having 1 to 20 carbon atoms, aryl group having 6 to 60 carbon atoms, heterocyclic compound group having 4 to 60 carbon atoms and cyano group; 1 is 0 or 1

$$--Ar_6-\left(CR_5-CR_6\right)_k$$
 .... (4)

in the formula,  $Ar_6$  is an arylene group having 6 to 60 carbon atoms contained in the main chain, or a heterocyclic compound group having 4 to 60 carbon atoms contained in the main chain;  $R_5$  and  $R_6$  each independently represents a group selected from the group consisting of a hydrogen atom, alkyl group having 1 to 20 carbon atoms, aryl group having 6 to 60 carbon atoms, heterocyclic compound group having 4 to 60 carbon atoms and cyano group; and k is 0 or 1.